LIMA LOCOMOTIVE WORKS
INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 36 - SPECIAL

Dept. DRAWING ROOM

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
407	3245	10-12-'23

FORM LED 60

407
36-2
3245.

407
(3245)
36-TON

ADDITIONS AND CHANGES

467

ADDITIONS

DATE	Page	ITEMS	Check
10-18-23	20	27	GD
" " "	11	~~4-10~~	GD
" 19- "	13	18	GD
" " "	25	8-10 To 19	GD
10-26-'23	1	1-11-16	GD
" " "	15	1 To 6-9-12-13-16 To 21-23 To 30-32 To 34	GD
" " "	15	36 To 44	GD
10-30-'23	3	13-14-15-22-25-43-44-45-47-48-53	GD
" " "	3	56-57-58	GD
" " "	4	1-3-4-5	GD
" " "	10	53	GD
" " "	11	9-10-	GD
" " "	18	48 To 52-19-20	GD
11-1-'23	24	10	GD
" " "	22	56	GD
11-5-'23	2	49	GD
11-6-'23	13	61	GD
" " "	18	41	GD
" 7 "	10	42	GD
" " "	11	14-16	GD
" 8 '23	18	53-43	GD
11-13-'23	4	40	GD
" " "	18	41	GD
" " "	24	52	GD
11-15-'23	12	25-26-27-28-33-38	S
11-28-'23	3	22	GD
12-1-'23	8	60-61	GD
12-3-'23	24	18	GD
" 6-'23	10	1	GD
" " "	10	42	GD
" 7- "	28	59	GD
12-7-23	18	54	S
" " "	3	59	S
12-14-'23	23	61	GD
12-15-'23	3	26	GD
12-17-'23	3	29	S

ADDITIONS

DATE	Page	ITEMS	Check

CHANGES

DATE	Page	ITEMS	Check
10-18-23	4	~~20~~ 12	GD
10-19-'23	24	11	GD
" " "	11	9-10	GD
10-30-'23	3	1	GD
" " "	4	31-To 34	GD
" " "	8	56-58	GD
" 31- "	12	34	GD
11-1-'23	22	55	GD
11-3-'23	18	48-49	GD
11-5-'23	12	34	GD
11-6-'23	25	6	GD
11-7-'23	21	49-47-48	GD
11-15-'23	12	60-61	GD
11-20-'23	27	39	GD
11-27-'23	17	34	GD
11-28-23	3	29	GD
12-7-'23	18	52	GD
" " "	10	51-52	GD
12-12-'23	3	59	GD

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
	1	~~ASH~~ OIL PAN	1	103A5032		—	—	—	—	—
	2	" Pan Material Bill	—			—	—	—	—	—
	3	" " Hopper								
	4	" " Slide								
	5	" " Door Frame								
	6	" " Slide Frame								
	7	" " Door Links								
	8	" " Damper Rigging								
	9	" " " Bell Crank								
	10	" " " " " Fulcrum								
	11	" " " Hinge	2	4½"×1¾"×6"	HALF BUTT	—	—	—	—	—
	12	" " " " Lug								
	13	" " " " Bar								
	14	" " " Lift—Front								
	15	" " " " —Rear								
	16	" " " Lug	1	103A5032		119F194	—	—	—	—
	17	" " " "								
	18	" " " Rod Jaw								
	19	" " " " "								
	20	" " Netting Frames								
	21	" " Slide Rigging								
	22	" " " Rod								
	23	" " " Jaw								
	24	" " Shaft Bearing								
	25	" " Cleaning Door Hinge								
	26	" " Bell Crank Bracket								
	27									
	28									
	29									
	30	GROUP 11—AXLES								
	31	AXLE	4	A-10226	#148	A-10226	—	—	—	—
	32	"								
	33	GROUP 12—BELL								
	34	BELL	1	122A5016			—		12-1	
	35	" Frame	1	123A5000			12-4			
	36	" " Base	1	122A5014			12-24			
	37	" Yoke	1	123A5000			12-5			
	38	" " Nut	1	122A5011			12-6			
	39	" " Pin	1	123A5000	BAR STOCK					—
	40	" Crank	1	122A5010						12-7
	41	" Tongue	1	122A5017						12-2
	42	" " Fulcrum	1	122A5018			12-3			—
	43	" Ringer Bracket	—							
	44	" Rope ~~Details~~ SCREW EYE	3	TO SUIT ERECT. SHOP	PURCHASED					
	45	" " Sheave	2	122A5019			12-21			
	46	" " " Chair	1	122A5022			12-20			
	47	" " " Frame	1	122A5020			12-18			
	48	" " Thimble	1	122A5021			12-19			
	49	" " " Washer	—							
	50	" Ringer	—							
	51									
	52	GROUP 13—BOILER								
	53	Boiler Plan	1	137D5007	A.S.M.E	—	—	—	—	—
	54	" Sections	—							
	55	" Material Bill	1 SET	13M.O.5025-A		—	—	—	—	—
	56	" Bracing List	1 "	137D5007		—	—	—	—	—
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
✓	1	Boiler Brace Rod Ends	4	11754 SET 12		117 F 201	—	—	—	—
✓	2	" " " "	4	310 D 153		310 S 82				
✓	3	" " " "	2	11754 SET 12		117 F 200				
✓	4	" " " "	4	11762 " 6		117 F 232				
✓	5	" " " "	2	310 D 208		310 S 150				
✓	6	" " " Lugs	2	310 D 366		310 S 156				
✓	7	" " " "	2	310 D 266		310 S 29				
✓	8	" " " "	2	310 D 207		310 S 97				
✓	9	" " " "	2	142 A 5001		14 A 5001				
			2	11762 SET 7		117 F 231				
✓	10	" " " Jaws	2	142 A 5018		310 S 270				
✓	11	" " " "	6	11754 SET 11		117 F 206				
✓	12	" " " "	2	310 D 366		} 310 S 65				
✓	13	" " " "	4	310 D 160						
✓	14	" " " "	2	11762 SET 7		117 F 220				
			2	142 A 5001		310 S 276				
✓	15	" " " "	4	11754 SET 11		117 F 205				
			1-R } 1-L	142 A 5018		14 A 5006				
✓	16	" Sling Stay	2	310 D 266		310 S 187				
✓	17	" " "	2	310 D 207		310 S 148				
✓	18	" Throat Brace	5	11766		117 F 215	—	—	—	—
	19	" " "	—							
	20	" Crown Bars								
	21	" " Roof Irons								
✓	22	" Stay Bolt	127	4535 LINE 1		4535 LINE 1				
✓	23	" " "	332	" " 2		" " 2				
✓	24	" Radial Stay	72	11721 LINE 2		11721 LINE 2	—	—	—	—
✓	25	" " "	48	11745		11745	—	—	—	—
	26	" " "	—							
	27	" Cross Stay	—							
✓	28	" Tee Bar	2	19" LONG		—	—	—	—	—
✓	29	" " "	2	14" "						
✓	30	" " "	2	9" "						
	31	" " "	—							
	32	" " "								
	33	" " "								
✓	34	" Mud Ring	1	A-11616		CD. A-11616	—	—	—	—
	35	" Tube Sheet Ring	—							
	36	" " " Studs	—							
✓	37	" Smoke Box Ring	1	A-11605 SET 1		A-11605 SET 1	—	—	—	—
	38	" " " "	—							
✓	39	" Tube (small)	104	2" O.D. 109" THICK 108" LONG.		—	—	—	—	—
	40	" Flue (large)	—							
	41	" Combustion Tubes	—							
✓	42	" Tube Setting	1 SET	11632 STYLE 4		—	—	—	—	—
	43	" Flue "	—							
✓	44	" Test Plate	1	420-D-449		—	—	—	—	—
	45									
	46	GROUP 15—BOLTS AND NUTS								
	47									
	48	GROUP 18—BRACKETS								
✓	49	Air Gauge Bracket	1	182 B 5073		—	18-27	—	—	—
	50	Steam Gauge Bracket	—							
✓	51	Bottom Bracket	1	184 A 5012			—	18-5	—	—
✓	52	" " Caps	4	182 A 5021			18-11			
✓	53	" " Bearing—Top	4	182 B 5033			18-88			
✓	54	" " " —Bottom	4	182 B 5037			18-89			
✓	55	" " " Wedge	4	182 A 5016			18-49			
✓	56	" " Wedge Screw	4	182 A 5022		182 A 5022	—	—	—	—
✓	57	" " " " Nut	4	"	BAR STOCK					
✓	58	" " " " Cap	4	182 B 5075		182 B 5075				
✓	59	Steam Bracket	1	183 A 5007			18-24-U			
	60	" " —Back	—							
✓	61	" " Brace	1	182 B 5066		182 B 5066	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
	1	BRAKE CYLINDER	1	13543 LINE 17		—	20-13	—	—	—
	2	" "	—							
	3	" " Head	2	202A5097		—	20-11	—	—	—
	4	" " "	—							
	5	" " Stuff. Box Gland	2	202A5091		—	20-12	—	—	—
	6	" " " " "	—							
	7	" Piston	2	202A5053		—	20-14	—	—	—
	8	" "	—							
	9	" " Rings, Mat'l For	4	653C5002	Pot Pattern	—	65-15	—	—	—
	10	" " " " "	2	3176 LINE 3	" "	—	65-106	—	—	—
	11	" " " " "	—		" "					
	12	" " " " "	—		" "					
	13	" " Rod—Front	1	202A5055	31 9/16"	135F76	—	—	—	—
	14	" " " —Rear	1	"	34 5/16"	135-F-75	—	—	—	—
	15	" " "	2	202B5169						
	16	" " " Jaw	—							
	17	" Hollow Piston Rod	2	20"x1 9/16" DIA.	TURN FROM 1 1/4" PIPE.	—	—	—	—	—
	18	" " " "								
	19	" Strut								
	20	" "								
	21	" Reservoir Blocks								
	22	" " Support	2	202D5000		—	—	20-481	—	—
	23	" " "	—							
	24	" " "	—							
	25	" " " Strap	2	202D5000		134F782	—	—	—	—
	26	" Pump Bracket	1	202A5101		—	20-141	—	—	—
	27	" " "	—							
	28	" Cyl. Lever Fulcrum	—							
	29	" Equipment	1 SET	20 ~~13~~ M.D. 5013-C.	EXCEPT WITH PLAIN HEADS 49071 INSTEAD OF 4776					
	30	" Valve	1	203A5010	#5					
	31	" " Base	1	202A5138			20-38			
	32	" " Cap	1	202A5137			20-39			
	33	" " Slide Valve	1	202A5133			20-40			
	34	" " Stem	1	202A5136	BAR STOCK					
	35	" " Handle	1	202A5139						
	36	" " " Latch	1	202A5134	BAR STOCK					
	37	" " Stuffing Box	1	202A5132	STICK BRASS					
	38	" " " " Nut	1	"	" "					
	39	" " " " Follower	1	"	" "					
	40	" " Bracket	1	TO SUIT ERECT. SHOP						
	41	" " " Brace								
	42	" Distributing Valve Bracket								
	43	" Relief Valve	3	202A5140					20-71	
	44	" " " —Top	3	"	STICK BRASS					
	45	" " " —Base	3	"					20-73	
	46	" —Frame Body								
	47	" Lever—Frame	2	487A5030		20T5049	—	—	—	—
	48	" " "	2	"		20D5075	—	—	—	—
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " Fulcrum—Frame	2	B-13407 LINE 2		B-13407 LINE-2	—	—	—	—
	54	" " " "	—							
	55	" " " "	—							
	56	" " Guides "	1	487A5030		20D5031				
	57	" " " "	1	"		20L5092				
	58	" " " "	2	"		20A5103				
	59	" " " "	~~1~~ 2	"		134F1102				
	60	" " " "								
	61	" " " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE (Cont.)								
	1	Brake Cylinder Bracket—Frame	2	487A5030	12"-30# C-52 1/8" LONG.	—	—	—	—	—
	2	" " " "								
	3	" Rods "	2	487A5030		20P5061				
	4	" " "	1	"	LENGTH TO SUIT	20M5094				
	5	" " "	1	"	" " "	20P5094				
	6	" " "								
	7	" " "								
	8	" " "								
	9	"								
	10	" Beam— Truck	4	~~A 9816 LINE 1~~	202A5144 for future	—		—		
	11	" " Fulcrum "	4	202A5130		20P5059		20-21		
	12	" " Safety Chain "	~~5~~ 4	—		98F389				
	13	" " Loop "	—							
	14	" Hanger "	8			20-F-5027				
	15	" " Lug "	8			98-F-496				
	16	" Heads "	8	202B5105				20-7		
	17	" Shoes "	8	203D5009				20-23		
	18	" Lever "	8	202~~A~~B5103	(3) PAT. 20-10 PURCHASED					
	19	" " "	2	202A5142		202A5142				
	20	" " "	2	202A5141		202A5141				
	21	" " "	2	202A5143		202A5143				
	22	" " "								
	23	" " "								
	24	" Rod "	2	9813 SET 7		98F76				
	25	" " "	2	"		98F79				
	26	" " "	2	"		98F80				
	27	" " "	2	"		98F85				
	28	Truck Bolster Lever Fulcrum	2	202A5131		—		20-26		
	29	" " Stop Lug								
	30	**GROUP 21—BUMPERS**								
	31	End Timber Arrangement—Front	1	213~~A~~E5012	WOOD					
	32	" " " —Rear	1	213~~B~~F5012	"					
	33	" " Channels—Front	1	213~~A~~E5012	10"-30#-92" LONG.					
	34	" " " —Rear	1	213~~B~~F5012	10"-30#-92" "					
	35	" " Drawhead Blocks	2	20"×10 1/2"×4"	WOOD					
	36	Push Pole Pocket	4	212A5002			21-7			
	37									
	38									
	39	**GROUP 22—CAB**								
	40	Cab	1	11106 LINE 4	WOOD KNOCK DOWN & ~~BOX FOR EXPORT~~	—	—	—	—	—
	41	" Material Bill	—							
	42									
	43									
	44	**GROUP 23—CAB DETAILS**								
	45	Cab Arm Rest	2	11165 LINE 4	232D5032	—				
	46	" Joint Plate	4	TO SUIT MILL	PLATE	—				
	47	" Strap	6			111-F-46				
	48	" Saddle Angle	1	A-11157 SET 8		111-F-221				
	49	" " Plate	1	"	PLATE	—				
	50	" Sash Fixture	—							
	51	" Storm Window	1	232D5012		—	—	—	—	—
	52	" " "								
	53	" " " Adjusting Bar	1	232A5010		3/16"×1"×10" LONG	—	—	—	—
	54	" " " " Plate								
	55	" Awning								
	56	" Curtain								
	57	" " Rod								
	58	" Door Fixture								
	59	" " " Clamp	2	232A5019		—				23-3
	60	" " " " Screw	2	232A5018		—				23-2
	61	" " " " Slide Bar	2	232A5023		1/4"×3/4"×28"				—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS (Cont.)								
P	1	Cab Door Fixture Rod	2	232A5020		232A5020	—	—	—	—
	2	" Ventilator	—							
	3	" " Fixture	—							
P	4	" " Handle	1	11145		111-F-30	Z	Z	Z	Z
P	5	" " " Hinge	1	"		111-F-31				
P	6	" " " Latch	1	"		111-F-32				
	7	" " Rod	—							
P	8	" Seat—Right	1	232A134	WOOD	—	Z	Z	Z	Z
P	9	" " —Left	1	232A5021		—				
P	10	" " ~~Back Support~~ POST HINGE	1	232A134		23-A-147				
	11	" " Cushion								
P	12	" " Post	1	232A134		23A148	—	—	—	—
P	13	" " Hinge	2	6" STRAP HINGE	PURCHASED	—	—	—	—	—
	14	" " Rod	—							
P	15	" Tool Box	1	A-11154	WOOD	—	—	—	—	—
	16									
	17									
	18									
	19									
	20	GROUP 26—COCK AND VALVES								
P	21	Air Sander Valve	2	1/4" GLOBE-CRANE #1807						
	22									
	23	Angle Valve	Z							
	24	" " Cap								
	25	" " Stem								
	26	" " Gland								
	27	" " Nut								
	28									
	29	Ash Pan Cock	—							
	30									
	31	Bell Ringer Valve	—							
	32									
P	33	Blower Valve	1	3/4" ANGLE UNION OUTLET #1813						
	34	" " Cap	Z							
	35	" " Stem								
	36	" " Gland								
	37	" " Nut								
P	38	Blow Off Cock	1	1 1/2" CRANE						
	39	" " " Cap	Z							
	40	" " " Plug								
	41	" " " Nut								
	42	" " " Washer								
	43	" " Extension								
	44	Blow-off Valve								
P	45	Injector Starting Valve	2	1 1/4 CRANE #1803 - 1 1/2" C.P. UNION						
	46	" " " Cap	Z							
	47	" " " Stem								
	48	" " " Gland								
	49	" " " Nut								
P	50	Brake Stop Valve—Steam	1	3/4" ANGLE MALE INLET & FEMALE OUTLET #1811						
P	51	" " " —Air	1	1" " " "						
	52	" " " —Inter.	—							
	53									
	54	Cinder Swipe Valve	—							
	55									
P	56	Cylinder Cock	6	1/2" UNION BIBB						
	57	" " Nut	Z							
	58	" " Shank								
	59	" " Valve								
	60	" " Cap								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
✓	1	Drip Valve Brake Exhaust Drain	1	1/2" GLOBE	#1807 CRANE					
✓	2	" " Check Pipe "	2	1/2" "						
✓	3	" " Exhaust " "	1	1/2" "						
✓	4	" " Steam Chest "	1	1/2" "						
✓	5	" " Water Gauge "	1	1/4" "						
	6									
	7	Drip Cock—Brake Exhaust Drain	—							
✓	8	" " — " " " —Air	1	1/4" AIR COCK		—	—	—	—	—
	9	" " —Check Pipe Drain	—							
✓	10	" " —Fuel Sprinkler Drain	1	1/4" AIR COCK		—	—	—	—	—
✓	11	" " —Siphon Drain	1	3/8" " "		—	—	—	—	—
✓	12	" " —Oil Heater Drain	3	3/8" " "						
✓	13	Generator Valve	1	3/4" CRANE #1811 & UNION FOR 3/4" IRON PIPE						
	14	" " Cap								
	15	" " Stem								
	16	" " Gland								
	17	" " Nut								
	18									
	19	Feed Cock	—							
	20	Heater Valve	—							
	21									
	22	Lubricator Valve	—							
	23	" " Extension	—							
✓	24	Oil Burner Valves	1	1/2" GLOBE	CRANE #1807					
✓	25	" Heater "	1	1/2" "						
✓	26	" Tank Blow-Back Valve	1	1/2" "						
✓	27	" " Heater Valve	1	1/2" "						
✓	28	Oil Cock	1	26ZA5003					26-34	
✓	29	" " Cap	1	"					26-32	
✓	30	" " Plug	1	"					26-33	
✓	31	" " Spring	1	"	#11-WIRE					
	32	" " Washer	—							
	33									
	34	Plug Cock—Injector Check								
	35	" " Cap								
	36	" " Plug								
	37	" " Nut								
	38	" " Washer								
	39									
	40	Port Cock	—							
	41									
✓	42	Siphon Valve	1	1/4" CRANE #1811		—	—	—	—	—
	43									
✓	44	Sprinkler Valve	1	1/2" GLOBE #1807		—	—	—	—	—
	45	" " Cap								
	46	" " Stem								
	47	" " Gland								
	48	" " Nut								
	49									
	50									
✓	51	Steam Gauge Cock	1	1/4" CYL. COCK LEVER HANDLE & 3/8" L.P. UNION			—	—	—	—
	52									
✓	53	Steam Gauge Cock Extension	1	11464 STYLE 1 STICK BRASS			—	—	—	—
	54									
	55	Tire Sprinkler Valve	—							
	56									
	57	Through Valve								
	58	" " Cap								
	59	" " Stem								
	60	" " Gland								
	61	" " Nut								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)								
✓	1	Gauge Cock	3	3/4" NATHAN TYPE 272A1001 EXCEPT 3/4" P. THD.						
	2	" " Valve								
	3	" " Cap								
	4	" " Stem								
	5	" " Gland								
	6	" " Nut								
	7									
	8									
	9	Gauge Cock Extension	—							
✓	10	" " Dripper	1	272A5006		—	27-38	—	—	—
	11									
	12									
✓	13	WATER GAUGE	1	#9 REFLEX						
✓	14	" " Upper Fitting	1	3/4" NATHAN						
	15	" " " " Cap								
	16	" " " " Valve								
	17	" " " " Stem			THD. 3/4" P. SIZE. LENGTH TO SUIT ERECT. SHOP.					
	18	" " " " Gland								
	19	" " " " Nut								
	20	" " " " Washer								
✓	21	" " Lower Fitting	1	3/4" NATHAN						
	22	" " " " Cap	—							
	23	" " " " Valve	—							
✓	24	" " " " Stem	1	A-11413 LINE 2	STICK BRASS.					
	25	" " " " Gland								
	26	" " " " Nut								
	27	" " " " Washer								
✓	28	" " Cock Elbow	1	272B5003		—	—	—	27-9	—
✓	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP.				
	30	" " Marker "								
	31	" " " " Clamp								
	32	" " "								
	33	Water Gauge Extension								
	34	Water Gauge Cock								
	35									
	36	GROUP 28—COCK RIGGING								
	37									
✓	38	Blow-off Cock Rigging	1 SET	A-11405			—			
✓	39	" " " Handle	1	732A5027			73-6			
✓	40	" " " Rod	1	3/8" PIPE TO SUIT E.S.			—			
	41	" " " "	—							
✓	42	" " " " Jaw	1	A-11405		114F4	—	—	—	—
	43	" " " Lever	—							
	44	" " " " Fulcrum	—							
	45									
✓	46	Cylinder Cock Rigging	1 SET	7329 LINE ~~X~~ 4 Ack. 4-1-36		—	—			
✓	47	" " Eye Bolt	3	282A5005		282A5005.	—			
✓	48	" " ~~Hand Lever~~ HANDLE	1	282A5006		—	28-2.			
	49	" " " " Fulcrum	—							
✓	50	" " Rod	1	7329 LINE ~~X~~ 4	C.R. STEEL	—	—	—	—	—
✓	51	" " " Lever	3	282A5004		—	—	—	—	28-1
✓	52	" " " ~~Jaws~~ CONN. LEVER	3	7329 LINE ~~X~~ 4	3/16" × 5/8" × ~~14~~ 14 1/4" C.R. STEEL					
	53	" " Valve Lever								
	54	" " " " Connection								
	55	GROUP 30—CROSSHEAD								
✓	56	Crosshead	3	302A5009			—	30-7		
✓	57	" Shoe	6	302A5008			30-8			
✓	58	" " Bolts	6	"						
✓	59	" Pin	3	7800 SET 3	BAR STOCK					
✓	60	" Key	3	302A5034						
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
	1	CYLINDER	2	15916 LINE 2		—	31-21	—	—	—
	2	"	1	"		—	31-22	—	—	—
	3	" Frame	—							
	4	" "	—							
	5	GROUP 32—CYLINDER DETAILS								
	6	Cylinder Head	3	322A5031		—	32-73	—	—	—
	7	" " Casing	3	322A5035	PRESSED STEEL	—	—	—	—	—
	8									
	9									
	10	Steam Chest Cover	3	322B5002		—	32-64	—	—	—
	11	" " Casing	3	322B5038	PRESSED STEEL	—	—	—	—	—
	12	Valve Chamber Head								
	13	" " "								
	14	" " Cover								
	15	" " Bushing								
	16									
	17									
	18	GROUP 34—CYL BY-PASS & RELIEF VAL								
	19	Steam Chest Relief Valve	3	342-A-5000 7432 LINE 1	STICK BRASS	Z	Z	Z	—	Z
	20	" " " " Base	3	"					34-3	
	21	" " " " Cap	3	"					34-2	
	22									
	23									
	24									
	25									
	26	GROUP 35—DIE WORK								
	27									
	28									
	29									
	30									
	31									
	32									
	33	GROUP 36—DOME								
	34	Dome	1	137D5007		Z	Z	Z	Z	Z
	35	" Flange	1	11687						
	36	" " Radius	—	24 5/16						
	37	" Cap	1	362A5007						
	38	" Ring	1	362A5009						
	39	" Casing—~~Base~~	1	12041 LINE 3	PRESSED STEEL					
	40	" " —Shell	—							
	41	" " —Top	—							
	42	" Flow Bowl	1	12041 LINE 3	SHEET STEEL	—	—	—	—	—
	43	" " " Bracket	3	" " 3		120F3	—	—	—	—
	44									
	45									
	46									
	47	GROUP 37—DRAWGEAR F & B								
	48	Coupler F.	1	373A5003	Sent 1-Complete 1-23-46. R. 19774 HCA	Z		37-2	Z	Z
	49	" B.	1	"				37-2		
	50	" Knuckles	3	372B5000				37-4		
	51	" "	—							
	52	" Lock	2	372A5006		—	—	37-12	—	—
	53	" " Lifter	2	372A5007		—	—	37-13	—	—
	54	" Link	—							
	55	" Lever	—							
	56	Uncoupling Shaft	2	213~~A~~E5012		376 5009	—	—	—	—
	57	" "	—							
	58	" " Bracket	6	213~~A~~E5012		104F26	—	—	—	—
	59	" " "	—							
	60	~~Buffer~~ " LINK	2	372B5004		372B5004	—	—	—	—
	61	" CLEVIS	4	372A5004		372A5004	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)								
✓	1	Drawhead	2	373A ~~5017~~ 5019	Sent 1, R.19774 1-23-46. ~~HCA.~~		37-1.	—	—	—
✓	2	Draw Gear Brace	2	11076 SET 1		110 F 134.	—	—	—	—
	3	" " "	—							
✓	4	" " " Foot	2	11076 SET 1		—	—	37-73.	—	—
✓	5	" " " Foot	2	"		—	—	37-74.	—	—
	6	" " Back								
	7	" " Shims								
	8	" " Pin								
	9	" " Frame—Front								
	10	" " " "								
	11	" " " —Rear								
	12	" " " "								
	13	" " Tie Plate								
	14	" " Friction Plate								
	15	" " Sliding Bar								
	16	" " " "								
	17	" " Connecting Rod								
	18	" " " " Pin								
	19	" " Yoke								
	20	" " " Block								
	21	" " " Followers								
	22	" " " "								
	23	" " " Binder Plate								
	24	" " Carrier Link								
	25	" " " Pin								
	26	" " " Plate								
	27	" Bar Guide								
	28	" " Pin								
	29	" " Carry Iron								
	30	" " " " Bolt Liner								
✓	31	" Pin—Front	1	—		104 F 35.	—	—	—	—
✓	32	" " —Back	1	—		104 F 35.	—	—	—	—
	33	Shackle Bar								
	34	" " Key								
	35	" " Gibs								
	36	" " Brace								
	37	" " " Pad								
	38	" " " Pin								
	39	" " Pin								
	40	Safety Link								
	41	" " Pins								
	42									
	43	GROUP 39—ECCENTRICS								
✓	44	ECCENTRIC—No. 1 Cylinder	1	392 C5038			39-340.			
✓	45	" No. 3 Cylinder	1	"			39-340.			
✓	46	" No. 2 Cylinder—Top	1	392B5034			39-338.			
✓	47	" No. 2 Cylinder—Bot.	1	"			39-339.			
✓	48	" Key	2	"	CHROME VANADIUM.		—			
✓	49	" Stud	2	"	MACH. STEEL.		—			
✓	50	ECCENTRIC STRAP Top	6	392A5028			39-32.			
✓	51	" " Bottom	6	"			39-33.			
✓	52	" " Bolts	12	"			—			
	53	" " Liner	—							
	54	" " Filler	—							
	55									
✓	56	ECCENTRIC ROD	3	3900		39B5004.				
✓	57	" "	3	"		39B5003.				
✓	58	" " Pin	6	393D5000.		—				
	59	" " "	—							
✓	60	" " Bolts	12	8509 SET 9.		—	—	—	—	—
	61	" " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS								
O	1	ERECTING PLAN—Elevation	1	428A5052						
	2	GROUP 43—ERECTING CARDS								
O	3	ERECTING PLAN—Sections	1	433A5009		—	—	—	—	—
	4									
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
P	6	EXHAUST Drop Pipe	1	442A5028			44-754-A			
P	7	" " Pipe Flange	1	12898			44-6			
P	8	" Nozzle	1	442A5069			44-8			
P	9	" "	1	442E5070			44-98			
P	10	" "	1	442F5070			44-112			
	11	" " Tip	—							
	12	" Extension	—							
	13	" Gland	—							
P	14	" Reducer	1	442A5026			44-546			
P	15	" " Gland	1	442A5027			44-545			
P	16	" Pipe Elbow	1	442A5025			44-544			
P	17	" " Joint Ring	1	792U5029			79-31			
P	18	" "	1	442E5015	5" PIPE		—			
P	19	" " Nipple	1	THD. TO SUIT ERECT. SHOP	"		—			
	20	GROUP 45—FIREDOOR AND FIREBRICK								
P	21	FIRE BRICK	200	STEEL KING BRAND 9"x4½"x2½" & 3 SACKS OF FIRE CLAY TO BE INSTALLED WHEN ENG. REACHES ITS DESTINATION.						
	22	" " Arch Tube	—							
	23	" " " " Setting	—							
	24									
P	25	FIRE DOOR	1	12727		—	45-2			
P	26	" " Frame	1	"		—	45-3			
P	27	" " ~~Liner~~ HINGE PIN	1	"		45A5000				
P	28	" " Latch STUD	1	"		5½" x 1" DIA.				
P	29	" " THUMB ~~Handle~~ NUT STUD	1	"		3½" x 5/8"				
P	30	" " PEEP HOLE ~~Guide~~ COVER STUD	1	"		3½ x 5/8"				
P	31	" " Shield	1	453E5008	453G5008 for new work		45-19			
P	32	" " Damper	1	"			45-4			
P	33	" " " Bearing	1	"			45-5			
P	34	" " " "	1	"			45-6			
P	35	" " " Handle	1	"		380540				
P	36	" " " Thumb Nuts	1	"		380539				
P	37	" " Peep Hole Cover	1	"	PLATE					
	38									
	39									
	40									
	41	GROUP 48—FRAME AND DETAILS								
P ✓	42	FRAME	1	487A5030	KNOCK DOWN & BOX FOR EXPORT.					
P	43	" Boiler Saddle	2	482A5100	19 11/16" RAD.	—	48-93	—	—	—
	44	" " "	—							
P	45	" " Pad Clamp	4	10748 SET 1 LINE 2		FIN. SIZES 1½" x 5" x 7¼"				
P	46	" " " "	2	" " 2 " 2		FIN. SIZES ⅞" x 5" x 14"				
P	47	" " " "	2	" " 3 " 2		FIN. SIZES 1½" x 5" x 12"				
P	48	" " " "	4	" " 4 " 2		FIN. SIZES ⅞" x 5" x 6½"				
	49	" Bolster Fill Blocks	—							
P	50	" Centre Plate	2	482A5111			—	48-154		
P	51	" Side Bearing—Right	2	487A5030		2⅝" x 6" x 14"		—		
P	52	" " " —Left	2	" "		2⅝" x 5" x 14"		—		
P	53	" Spreader	2	487A5030		48R5028	—	—	—	—
P	54	" Truss Pad	4	12441		—		48-8		
P	55	" " "	4	"		—		48-9		
P	56	" " Head	4	12445 LINE 2		CO. 12445 LINE 2				
P	57	" " Post Head	4	3505			48-13			
P	58	" " " Socket	4	482A5043			48-14			
P	59	" " Rod Washers	8	12441			48-10			
P	60	Main Truss Rod—Right	1	487A5030		2" DIA. LENGTH	—			
P	61	" " " —Left	1	"		TO SUIT L	—			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
P	1	Truss Rod Ends	4F	487A5030		54"×1½" DIA.	—	—	—	—
P	2	" " "	4R	"		66"×1½" "	—	—	—	—
	3	" " "								
	4	" " "								
P	5	" " Columns	2R	487A5030		22"×2" DIA.	Z	Z	Z	Z
P	6	" " "	2L	"		18"×2" "				
P	7	" Post Guides	1 PAIR	12438 SET 8	PLATE	—				
	8	" " "	—							
P	9	Frame Brace	1	487A5030		48W5005. ~~48K5005~~	Z	Z	Z	Z
P	10	" "	~~2~~ 1	"		48X5005 ~~48L5005~~				
P	11	" " To END TIMBER	1	"		110F72				
P	12	" " " " " "	1	"		110F69				
P	13	" "	1	"		~~48K5005~~	use ~~48~~ K5005 for future Engs.; use M for repair orders only.			
	14	" "	—1	"		48L5005				
P	15	Frame Pit Irons	~~4~~ 4	"		5/8"×2"×58"	—	—	—	—
P	16	" " "	—1	"		48P5028				
	17	" " "								
	18	" " "								
	19	" End Casting								
P	20	" " Timber Brace	4	11025 SET 15		—	Z	48-23	Z	Z
P	21	" Angle	13			½"×6"×6"×7½" LONG.		—		
P	22	" "	11			½×3½"×6"-7½" "		—		
	23	" "								
	24	" "								
	25	" "								
	26	" "								
P	27	" Smoke Box Brace Pad	2	13007 SET 1		—	48-15.	Z	Z	Z
P	28	EXPANSION PLATE	1	482A5032	PLATE	—	—			
P	29	" " Angle	1 SET	"		482A5032.	—			
	30	FURNACE BEARER—Front								
	31	" " —Rear								
	32	" " Plate								
	33	" " Fill Blocks								
P	34	Boiler Pad—Right	2	482C5026		—	48-613.	—	—	—
P	35	" " —Left	2	"		—	48-613.	—	—	—
	36									
	37									
	38	GROUP 49—GAUGES, TEMPLATES & JIGS								
	39									
	40									
	41									
	42	GROUP 50—GUIDES & ATTACHMENTS								
P	43	Guide	6	502A5026		—	50-4.	—	—	—
	44									
	45									
	46	GROUP 51—GRATE ARRANGEMENT								
	47	Grate Arrangement	—							
	48	GROUP 52—GRATE DETAILS								
	49									
	50									
	51	Grate Bars								
	52	" "								
	53	" "								
	54	" Center Rail								
	55	" Side "								
	56	" " "								
	57	" Cover Plate								
	58	" " "								
	59	" Shaker Pins								
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
	1	Grate Dead Plate								
	2	" " "								
	3	" Drop "								
	4	" Dump Shaft								
	5	" " " Bearing								
	6	" " " "								
	7	" " " Links								
	8	" " " Lever								
	9	" " Lever								
	10	" Shaker Shaft Bracket								
	11	" " " "								
	12	" " Lever								
	13	" " Shaft								
	14	" " "								
	15	" " " Lever								
	16	" " " "								
	17	" " " Hand Lever								
	18	" " " " "								
	19	" " Lever Connection								
	20	" " " "								
	21	" " Connection Bar								
	22	" " " "								
	23	GROUP 53—H'NDRAIL & STEPS (En.&Tr)								
	24	HAND RAIL	—							
	25	" " Bracket	2	10010			53-10			
	26	" " Balls	1	532E 5034			53-4			
	27	" " Columns	2	A-11406 SET 1			53-8			
	28	" " "	2	A-11404			53-7			
	29	" " "								
	30	" " "								
	31	" " " Blocks								
	32	" " " "								
	33	" " Flanges	1	532 F 5034			53-5	—	—	—
	34	Cab Handle—Right	2	~~532 E 5002~~	Superseded	~~532 E 5002~~	—	—	—	—
	35	" " —Left								
	36	Coal Bunk Handle—Right	—							
	37	" " " —Left	—							
	38	Tank Handle	2	883 J 5030		151-F-13	—	—	—	—
	39	End Timber Handle	2	213 E 5012		103 F 146	—	—	—	—
	40	" " "	—							
	41	" " " Bracket	2	213 E 5012		103 F 94	—	—	—	—
	42	" " " "	—							
	43									
	44									
	45	Bottom Bracket Step	—							
	46	Cab Step RIGHT	1 SET	532 A 5011	WOOD TREAD	53 B 5010				
	47	" " BRAC. RIGHT	2	"		111-F-7				
	48	" " LEFT	1 SET	532 A 5010	WOOD TREAD	53 A 5010				
	49	" " BRAC. LEFT	4	"		111-F-7				
	50	" " Brace	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	51	" " "	2	" " " "		" " " "				
	52	Cylinder Step								
	53	" Hood Step								
	54	Generator Step								
	55	End Timber Step—~~Front~~	2	213 E 5012		103 F 14	—	—	—	—
	56	" " " —~~Back~~	6	"		53 D 5006	—	—	—	—
	57	Headlight Step	—							
	58	Pilot Step	—							
	59	SAND BOX STEP BRACKET	1	533 D 5003		533 D 5003	—			
	60	Sand Box Step	1	D-4141		—	53-14			
	61	" " " Bracket		~~533 E 5003~~		~~533 E 5003~~	—			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	" "	—							
✓	3	Headlight {~~Oil~~ Electric}	2	SUNBEAM 16" GASE WITH TURBO GENERATOR.			—	—	—	—
✓	4	Headlight Bracket	1 Pr.	10000 SET 6	PLATE		—	—	—	—
	5	" Columns								
✓	6	" Shelf—Front	1	10020	PLATE	—				
✓	7	" " —Rear	1	3/16" 1/4" × 18" × 24"	PLATE	—				
✓	8	Generator Bracket	2	10003		100 F 3				
✓	9	" Shelf	2	"	1/4" × 15" × 18" PLATE					
✓	10	Lamp	1	DAYTON ELECTRIC	PURCHASED					
✓	11	"	1	" "						
✓	12	" Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP.				
	13	" "	—							
✓	14	Number Plate	1	542 A 5009					54-6	
✓	15	" " Stud	1	A-12969			—		—	
✓	16	Builder's Card	2	542 A 82					54-8169	
✓	17	Name Plate	2	B-11138			54-4		—	
✓	18	Patent Plate	1	542 A 5006					54-183	
	19	Property Plate								
	20	Superheater Patent Plate								
✓	21	Electrical Equipment	1 SET	54 M.O. 5004		—	—	—	—	—
	22									
	23									
	24	GROUP 55—INJECTORS & FEED, WATER								
✓	25	Injectors	2	#6 NATHAN LIFTING LEVER HANDLE MONITOR TYPE "88".						
✓	26	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP.	—	—	—	—
	27									
	28									
	29									
✓	30	Injector Check Valve	2	1 1/4" SWING Crane #35 3/40	PURCHASED	—	—	—	—	—
	31	" " Flange				—				
✓	32	" Stop Valve	2	552 C 5010	PURCHASED Powell					
	33	Feed Pipe Strainer	—							
✓	34	" " Bracket	2	552 B 5036		—	55-8	—	—	—
✓	35	" " " Cap	2	"		—	55-7	—	—	—
	36	" Pipe Hanger								
	37	" Hose Connection								
	38	" " " Nuts								
	39	" " " "								
	40	" " " Nipples								
	41									
	42									
	43									
	44	GROUP 57—LAGGING & JACKET								
✓	45	Lagging (Boiler)	1	57 M.O. 5006		—	—	—	—	—
	46	" Panel								
	47	" "								
	48	" "								
	49	" Angle Iron								
	50	" " "								
✓	51	Jacket (Boiler)	1 SET	PAINTED STEEL #22-B.W.G.		—	—	—	—	—
	52	" Band	—							
✓	53	" " Angle	4	57 C 5000						
✓	54	" Clamp	36	570 D 46						57-28
✓	55	" EYE BOLT	6	572 A 5004						
✓	56	Plug Casing	4	572 A 6						
	57	" "								
	58	" Cover								
	59	Cylinder Lagging								
	60	" Jacket								
✓	61	" Hood	1	572 K 5006	PLATE	572 K 5006.	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
✓	1	Link	3	583A5002		—	—	58-1	—	—
	2	" —Top Half	—							
	3	" —Bottom Half	—							
✓	4	" Saddle	3	583A5002		583A5002	—	—	—	—
✓	5	" " Bolts	6	8511 SET 11		—	—	—	—	—
	6	" " "	—							
✓	7	" Block	3	582A5014		FIN. SIZES 1½" x 2¼" x 3"	—	—	—	—
✓	8	" " Pin	3	8520		85-F-1				
✓	9	" " Plates	6	582A5014	C.R. STEEL	—				
	10	" " Ends	—							
✓	11	" Hanger	3	3069 LINE 1		81-F-7	—	—	—	—
✓	12	" " Pin	3	8513 SET 2		—	—	—	—	—
	13									
	14	GROUP 59—OIL CUPS & LUBRICATION								
✓	15	Lubricator	1	NATHAN 5 FEED 1918 TYPE						
✓	16	" Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	17									
✓	18	Bottom Bracket Oil Cup	4	592A5006		—	59-48	—	—	—
✓	19	" " " " Cap	4	"		—	59-49	—	—	—
	20	" " " " Nut								
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
	25	" " " " " "								
✓	26	" " Grease Cup	4	#4 POWELL - PLAIN STEEL PURCHASED		—	—	—	—	—
	27	" " " " Cap								
	28	" " " " Nut								
	29	" " " " Plug								
✓	30	Crosshead Oil Cup	3	#3 SPRING TOP PURCHASED		—	—	—	—	—
	31	" " " Cap								
	32	" " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " Covers								
✓	38	Guide Oil Cup	6	#4 ELBOW SHANK		—	—	—	—	—
	39	" " " Cap								
	40	" " " Nut								
	41	Link Oil Cup								
	42	" " " Cap								
	43	" " " Nut								
✓	44	Packing Oil Cup	3	592A5005		—	—	—	59-44	—
✓	45	" " " Cap	3	"		—	—	—	59-45	—
	46	" " " Nut	—							
✓	47	Rod Oil Cup	3	592A5010		—	—	—	59-29	—
✓	48	" " " ~~Cap~~ SCREW	3	"	BAR STOCK				—	
✓	49	" " " Plug	3	"					59-30	
✓	50	" " " Latch	3	"					59-6	
✓	51	" " " Spring	3	"	.07" WIRE				—	
✓	52	" " " Base	3	"					59-31	
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
✓	56	Truck Box Oil Cup Cover—R. Box	4	TO SUIT TRUCK SHOP PLATE		—	—	—	—	—
	57	" " " " " —L. Box								
	58	" " " " " Hinge Plate								
	59	Valve Stem Oil Cup								
✓	60	Oil Can Shelf	1	592A5004		—	59-120	—	—	—
	61	" " " Bracket	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
P	1	Oil Burner	1	2" VON BODEN						
P	2	" " Arrangement	1	604 A 5005						
P	3	" " Support	1	"	3/8" x 3" x 9 3/8" PLATE					
P	4	" " Turret	1	C-11881			60-3			
P	5	" Cock Rod	1	3/4" LENGTH TO SUIT ERECT. SHOP			—			
P	6	" " " Jaw	2	604 A 5005		118 F 186	—			
	7	" " " "	—							
	8	" " Shaft	—							
P	9	" " " Arm	1	602 A 5009		602 A 5009	—	—	—	—
	10	" " " Hanger	—							
	11	" " " Collar	—							
P	12	" Pipe Support	1	TO SUIT ERECT. SHOP		118 F 345	—	—	—	—
P	13	" " "	1	" " " "	1/2" x 2" PLATE LENGTH TO SUIT		—	—	—	—
	14	" " Clamp	—							
	15	" " "	—							
P	16	" Heater Support	2	604 A 5005	1/4" x 4 1/2" x 7" PLATE	—	—	—	—	—
P	17	" " Clamp	4	TO SUIT ERECT. SHOP		118 F 191	—	—	—	—
P	18	" Regulator Bracket	1	602 B 5028		602 B 5028				
P	19	" " Shaft	1	604 A 5005		60 W 5002				
P	20	" " " Arm	1	602 A 5009	602 E 5009 FUTURE LUKE	602 A 5009				
P	21	" " " Hanger	1	"		60 B 5006				
	22	" " " Collar	—							
P	23	" " " "	1	602 D 5021	MACH STEEL				—	
P	24	" " Quadrant	1	602 A 5012		602 A 5012			—	
P	25	" " Lever	1	602 A 5013		—			60-18	
P	26	" " Latch	1	602 A 5015		118 F 3			—	
P	27	" " " Handle	1	602 A 5016					60-19	
P	28	" " " Spring	1	602 C 5021	BRASS WIRE				—	
P	29	" " " Link	1	602 A 5021					—	
P	30	" " " Guide	1	602 A 5018					60-21	
	31	" " " Pin	—							
P	32	" " Lever Dowel	1	602 B 5021	STICK BRASS				—	
P	33	" " " Stop	1	602 A 5014					60-22	
P	34	" " " Thumb Nuts	1	602 A 5017					60-20	
	35	" " " Adjusting Screw	—							
P	36	" Damper Regulator Quadrant	1	602 A 5034						
P	37	" " " Handle	1	602 A 5020						
P	38	" " " Shaft	1	604 A 5005	1 1/4" PIPE 73" LONG					
P	39	" " " " Bushing	2	602 E 5021					60-23	
P	40	" " " " Arm	1	604 A 5005		118-F-32				
P	41	" Heater	1	E-11819 LINE 1						
P	42	" " Stuffing Box	2	"			60-1			
P	43	" " " " Follower	2	"					60-2	
P	44	" " " " Nut	2	"			65-52			
	45									
	46									
	47									
	48									
	49									
	50	GROUP 61—PAINT'G, LETTER'G, NUM'G								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	" Bottom Plate								
	4	" Corner Iron								
	5	" Brace								
	6	" "								
	7	" "								
	8	" "								
	9	" " Rod								
	10	" Knee								
	11	" "								
	12									
	13									
	14	Snow Plow	—							
	15									
	16									
	17	GROUP 63—PIPE FITTINGS								
	18	Air Gauge Fitting	—							
8	19	" Pump Oil Fitting	1 SET	7138	STICK BRASS	—	—	—	—	—
	20	" " " " Nut								
	21	" " " " Swivel								
	22	" " Exhaust Wye								
	23	" " Tee								
	24									
	25									
8	26	Blower Fitting	1	632A5004		—	—	—	63-6	—
	27	" " Nut	—							
8	28	Brake Release Check	1	13523	STICK BRASS	—	—	—	—	—
8	29	" " " Valve	1	"		—	—	—	63-64	—
	30	Brake Ex. Fitting								
	31	" " " Nut								
	32	Coal Sprinkler Fitting								
	33	" " " Nut								
	34	" " " Swivel								
8	35	Cylinder Oil Pipe Fitting	3 SET	7138	STICK BRASS					
	36	" " " " Nut								
	37	" " " " "								
	38	" " " " Swivel								
	39	" " " Bracket								
	40	Angle Valve Nut								
	41	" " Swivel								
	42	Through Valve Nut								
	43	" " Swivel								
	44	Oil Cock Nut								
	45	" " Swivel								
	46	Lubricator Check								
8	47	Steam Brake Oil Fitting	1	7138	STICK BRASS					
8	48	" " " " Nut	1	"	" "					
	49									
	50	Check Pipe Union								
	51	" " " Nut								
	52	" " " Swivel								
	53	Oil Pipe Union								
	54	" " " Nut								
	55	" " " Swivel								
	56	Steam Pipe Union								
	57	" " " Nut								
	58	" " " Swivel								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp								
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	GROUP 64—PIPING ARRANGEMENTS								
	15	Piping Arr'g. General								
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22									
	23									
	24									
	25									
	26	GROUP 65—PISTON AND ROD		H 6-21-43						
✓	27	PISTON HEAD	3	652A5131		—	65-98.			
✓	28	" Packing Rings, Material For	6	653E5000	Pot Pattern	—	65-5.			
✓	29	" Rod	3	652A5121		FIN. SIZES 24 1/8" x 1 15/16"	—			
	30									
	31									
	32									
✓	33	PISTON ROD PACKING	18	692K5017	Pot Pattern 65-389.	—	—			
✓	34	Packing Rings	9 SET	652E5154 ~~XXXX SETS~~	PAXTON & MITCHELL. Soft white See H.E.H. 15784 7-13-36					
✓	35	" Spring Washer	3	7733 " 1			65-21.			
✓	36	" Swab Cap	3	652B5085			—		65-27.	
✓	37	" ~~Follower~~ Lock	3	652A5012			—			
✓	38	" Stuffing Box	3	652A5038.			65-216.			
✓	39	" " " Gland	3	652A5039			65-37.			
✓	40	" Vibrating Cups	3	652B5004			65-129.			
✓	41	" Spring	3	#9			—			
	42									
	43									
✓	44	PACKING STUDS Piston Rod	12	7736 SET 1.		—	—	—	—	—
	45	GROUP 66—PLUGS								
	46	Arch Tube Plug	—							
✓	47	Back Head Plug (Prime)	2	1 7/8" x 11 1/2 THDS. TAPER 3/4" IN 12" PURCHASED.		—	—	—	—	—
	48	Crown Plug	—							
	49	Ecc. Strap Plug	—							
✓	50	Firebox Plug (Prime)	4	1 7/8" x 11 1/2 THD'S. TAPER 3/4" IN 12" PURCHASED		—	—	—	—	—
	51	" "								
	52	Fusible Plug								
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
	56	Test Plug								
✓	57	Waist Plug (Prime)	3	1 7/8" x 11 1/2 THD'S TAPER 3/4" IN 12" PURCHASED.			—	—	—	—
	58	Washout Plug Valve								
	59	" " " Cap								
	60	" " Flange								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER								
✓	1	Reverse Lever	1	—		83F123			—	
✓	2	" " Arrangement	1	8371 LINE 7		—			—	
✓	3	" " Handle	1	D-1315		—			68-3	
✓	4	" " Latch	1	3294 STYLE 1		83F49				
✓	5	" " " Guide	1	"		FIN. SIZES 1¼"×2"×3½"				
✓	6	" " " Rod	1	8371		83F109				
✓	7	" " " ~~Details~~ STEM GUIDE	1	3294		FIN. SIZES 3/4"×1"×2 15/16"				
✓	8	" " Quadrant	1	682A5017		682A5017				
✓	9	" " "	1	"		"				
	10	" " " Plate	—							
	11	" " Foot Rest	—							
✓	12	" " Shaft	1	4662 SET 1		83F188	—	—	—	—
✓	13	" " " Length		14 3/4" 6TR. TO 6TR.		—	—	—	—	—
	14	" " Arm								
	15	" " Fulcrum								
	16	" " " Bracket								
	17	" " " Pin								
✓	18	" " Shaft Stand	1	5471 SET 2		83F65				
✓	19	" " Quadrant Bracket	1	487A5030		68 65004				
✓	20	" " " "	1	"		109F124				
	21	" " " "								
	22									
	23									
	24									
	25									
	26	GROUP 69—REVERSE SHAFT								
✓	27	TUMBLING SHAFT	1	692C5002	ANGLE "A" = 7¼°	69A5001	—	—	—	—
	28	" " Arm	—							
	29	" " Collar	—							
✓	30	" " Box	3	692A5001			69-18			
✓	31	" " " Cap	3	"			69-5			
✓	32	" " Coupling Ball	2	8316 SET 2			69-2			
✓	33	" " " Socket	2	"			69-3			
✓	34	" " " Cap	2	"			69-3			
	35	" " " Sleeve								
	36	" " " Conn.								
	37	" " " "								
	38	" " " Nut								
	39									
	40	GROUP 71—RUNNING BOARDS								
✓	41	RUNNING BOARD	1 SET	717A5021	WOOD. KNOCK DOWN & BOX FOR EXPORT					
	42	" "								
✓	43	" " Bracket ON BOILER	1	A-10939 LINE-8		A-10939 LINE 8	—	—	—	—
	44	" " "								
	45	" " "								
	46	" " "								
	47	" " "								
✓	48	" " " Engine	3	487A5030		71D5008				
✓	49	" " " "	6	"		71 6 5008				
✓	50	" " " "	2	"		109F438				
✓	51	" " " "	3	"		71B5008				
✓	52	" " " "	2	"		1/2"×4½"×27" BAR				
✓	53	" " " "	1	712J5028	PLATE					
✓	54	" " " "	1	487A5030		109F344				
	55	" " " Tender								
	56	" " " "								
	57	" " " "								
	58	" " " "								
	59	" " " "								
	60	" " " "								
	61	" " " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
P	1	Connecting Rods	3	8949 LINE 2		89-F-28			—	
P	2	" " Brass, Xhd End	3	722A5036					72-10	
P	3	" " " " "	3	"					72-10	
P	4	" " " Crank "	3	722B5001 Heat Ordered 1 to Co		722-A-5029	72-64	6 1/4 Bore 8/29	72-60	
P	5	" " " " "	3	"					72-60	
	6									
P	7	Connecting Rod Strap	3	8949 LINE 2		89F27 FIN. SIZES				
P	8	" " Wedge—Top	3	"		1 5/8 x 2" x 2 1/2" FIN. SIZES				
P	9	" " " —Bottom	3	"		1 3/4 x 2 3/4 x 3"				
P	10	" " Key—Top	3	"		89F17				
	11	" " " —Bottom	—							
	12	" " Wedge Liner	—							
	13									
	14									
	15									
	16	GROUP 73—SAND BOX								
P	17	Sand Box—Front	1	733A5015			—			
P	18	" " Base	1	733A5012			73-77			
P	19	" " Top	1	733A5015			73-26			
P	20	" " Lid	1	"			73-24			
P	21	" " Valve	2	732A5022			73-4			
P	22	" " Lever—Short	1	732B5004			73-80			
P	23	" " " —Long	1	732A5014			73-152			
P	24	" " Rod Handle	1	732A5027			73-6			
P	25	" " Rigging	2	293 SET 4		1/4 x 1 1/4 x 16"	—			
P	26	" " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP		—	—			
P	27	Air Sander	4	732A5002		—	73-93	—	—	—
P	28	" " Nozzle	4	"	STICK BRASS					
P	29	Sand Box—Flue	1	12227 LINE x 3	PLATE for future another size eng.					
P	30	" " Funnel	1	732A5033	GALV. IRON					
P	31	" " Scoop	1	"						
P	32	SAND BOX—Back	1	732B5032	PLATE	—	—	—	—	—
	33	Back Sand Box Arrangement	—							
P	34	" " " Base	2	732A5025			73-5			
P	35	" " " Top	2	732A5024			73-314			
P	36	" " " Covers	2	"			73-12			
	37	" " " Valve								
	38	" " " Shaft Hanger								
	39	" " " " " Caps								
	40	" " " Hand Lever								
	41	" " " " " Fulcrum								
	42	" " " " " Rod								
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
	46	" " " Rod Jaws								
	47	" " " " "								
	48	" " " Shaft								
	49	" " " " Lever								
	50	" " " " "								
	51	" " " Valve Lever								
	52	" " " " Rod								
	53	" " " " "								
	54	" " " " " Conn.								
	55	" " " Rod Bell Crank								
	56	" " " " " " Fulcrum								
P	57	" " " Brace	2	—		122F87	—	—	—	—
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS								
✓	1	COUPLING RING —Front	2	743A5010				74-16	—	
✓	2	" " Half "	4	743B5010				74-17	—	
✓	3	" " Bushing "	8	742A5035				—	74-19	
✓	4	" " Oil Cellar "	8	742A5034			74-18	—	—	
✓	5	" " —No. 2								
	6	" " Half "								
	7	" " Bushing "								
	8	" " Oil Cellar "								
	9	" " —No. 3								
	10	" " Half "								
	11	" " Bushing "								
	12	" " Oil Cellar "								
✓	13	" " —Rear	2	743A5010				74-16	—	
✓	14	" " Half "	4	743B5010				74-17	—	
✓	15	" " Bushing "	8	742A5035				—	74-19	
✓	16	" " Oil Cellar "	8	742A5034			74-18	—	—	
	17									
✓	18	CRANK SHAFT	1	745A5011	#65	157F21	—	—	—	—
	19	Counterbalance								
	20	" Weight								
	21	" "								
	22	" "								
	23	" Yoke								
	24	" "								
✓	25	Horn Coupling	2	742B5271		—	—	74-201	—	—
	26	" "	—							
✓	27	" " Key	2	—		90-F-31	—	—	—	—
	28									
	29									
✓	30	LINE SHAFT—Front Truck	1	743A5068		FIN. SIZES. 3 13/16" x 77 7/8"	—	—	—	—
	31	" " —2nd "	—							
	32	" " —3rd "	—							
✓	33	" " —Rear "	1	743A5068		FIN. SIZES. 3 13/16" x 77 3/16"	—	—	—	—
✓	34	" " Bearings, Outside—Front	2	~~9237 SET 6~~	742-A-5307	—			74-263	
✓	35	" " " Inside "	2	"	"	—			74-264	
	36	" " " Outside—2nd								
	37	" " " Inside "								
	38	" " " Outside—3rd								
	39	" " " Inside "								
✓	40	" " " Outside—R'r	2	~~9237 SET 6~~	742-A-5307	—	—	—	74-263	—
✓	41	" " " Inside "	2	"	"	—	—	—	74-264	—
	42	" " " Plate—Front								
	43	" " " " —2nd								
	44	" " " " —3rd								
	45	" " " " —Rear								
✓	46	" " Collar	4	742K5192				74-3		
✓	47	" " "	3	742K5143				74-445		
✓	48	" " "	1	742L5143				74-334		
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
✓	55	" " Coupling	2	742A5272		—	12" 14"	74-175	—	—
	56	" " "								
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key								
	2	" " " "								
	3	" " " "								
	4	" " Collar "								
P	5	" " Pinion	4	742B5107	H.C.H. 2-9/37 ~~R-19678~~ NCH. 4-2-11-46 R-19795		—	74-70-A.	—	—
	6	" " "								
	7	" " "								
	8	" " "		742-F-5149			74-153 613 — 3-37 for future repair orders.			
P	9	" " Washer	4 Pr.	~~742B5149~~		—	74-~~135~~.	—	—	—
	10	" " "								
	11	" " "								
	12	" " "								
P	13	GEAR RIM	4	743A5044	H.C.H. 2-9/37 R-19678	Sent 1-NCH. 2-11-46 R. 19795 ~~Sent 3-NCH. 2-11-46~~ R. 19794		74-67.	—	
P	14	" " Bolt	28	742C5252.						
P	15	" " Key	16	8824 SET 13.						
P	16	SQUARE SHAFT—Front	1	742~~E~~F5250 for future repair		742~~E~~F5250.				
P	17	" " —Back	1	742J5250		742J5250.				
	18	" " —Center	—							
	19	" "	—							
P	20	" " Sleeve	2	742A5110		—	—	74-315.	—	—
	21	" " "								
	22	" " "								
	23	" " "								
	24									
	25									
	26	GROUP 75—SMOKE BOX AND STACK								
P	27	SMOKE BOX ARRANGEMENT	1	753A5001.		—	—	—	—	—
	28	" " Deflecting Plate	—							
	29	Deflecting Plate Angle	—							
P	30	Draft Pipe	1 SET	753A5001	PLATE.	—				
P	31	" " Hanger	2	"		129F146.				
P	32	" " "	2	"		129F147.				
P	33	" " "	2	"		129F96.				
P	34	" " " Key Bolt	12	"		75A5030.				
	35	Netting Frame								
	36	" Ring								
	37	Cinder Pocket								
	38	" Pot Base								
	39	" " Lid								
	40	" " Hand Wheel								
	41	" " Yoke								
	42	Cleaning Hole								
	43	" " Flange								
	44	" " Cover								
	45	Peep " Flange								
	46	" " Cover								
P	47	SMOKE BOX Brace—Right	1	To Suit Erect. Shop.		130F~~XX~~70.		—		
P	48	" " " —Left	1	" " " "		130F~~XX~~70.		—		
P	49	" " " Pad	2	752~~B5047~~A5048.				75-~~X~~11.		
P	50	" " " Pin	2	13002 Style 2.						
P	51	" " " Washer	2	13003 " 2.						
P	52	SMOKE BOX FRONT	1	12954 Set 1 Line 2.			75-81.			
P	53	" " " Door	1	" " 3			75-85.			
P	54	" " " Liner	2	A-12973			75-101.			
P	55	" " Door Liner	1	12954 Set 4			75-86.			
P	56	" " " Buttons	9	75265058			75-481.			
	57	" " " Hinge								
	58	" " " "								
	59	" " " " Lug								
	60	" " " " "								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
✓	1	SMOKE STACK (Type TAPER)	1	752B5039		—	75-44	—	—	—
	2	Smoke Stack Base								
	3	" " Extension								
	4	" " Top								
	5	" " Cone								
	6	" " " Bracket								
	7	" " " Brace								
	8	" " " "								
	9	" " Cleaning Hole								
	10	" " " " Cap								
	11	" " Hood								
	12	" " Ring								
	13	" " "								
	14	" " " Angle								
✓	15	" " Saddle	1	752B5076		—	75-105	—	—	—
	16									
	17									
	18	GROUP 76—SPRINGS								
✓	19	Truck Bolster Springs	40	762A5002	PURCHASED	—	—	—	—	—
✓	20	" Pedestal "	4	762A5007	"	—	—	—	—	—
	21	Drawgear Springs	—							
	22									
	23									
	24									
	25									
	26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.								
✓	27	Steam Gauge	1	5½" ASHCROFT BRASS RING						
	28									
✓	29	Safety Valve	2	1½" CONSOLIDATED FORM "H" 180#						
	30	" "								
	31	" " Elbow								
	32	" " Turret								
	33	" " " Bushing								
	34	" " " Ring								
	35	" " " Casing								
	36	" " " Flow-Bowl	—							
✓	37	TURRET	1	783L5006 for future when oil burner is used ~~11400 LINE 14~~		—	—	—	78-31	—
✓	38	" Ball Joint	1	A-11424 SET LINE 2					78-5	
✓	39	" Stuffing Box	1	11400					78-32	
✓	40	" " " Nut	1	"	STICK BRASS				—	
	41	" " " Follower	—							
✓	42	" Master Valve	1	11400		—	—	—	78-34	—
✓	43	" " " Nut	1	"	STICK BRASS					
✓	44	" " " Stem	1	"	" "					
✓	45	" " " Hand Wheel	1	"			27-14			
✓	46	" Bonnet Ring	1	"					78-33	
	47	Turret (Auxiliary)								
	48	GROUP 79—STEAM PIPES & TEE HEADS								
	49	STEAM PIPES								
	50	" " Slip Joint								
	51	" " " " Gland								
✓	52	" " Elbow	1	792B5000		—	79-563	—	—	—
	53	" " " Support	—							
	54	" " Tee Head	—							
✓	55	" " Joint Ring—~~Top~~	~~1~~ 2	792N5029	← 1-20 H.C.H. 9/37 - 19678	—	79-24	—	—	—
✓	56	" " " " —Bottom	1	792B5053	For Future use 792S5053 Pat. 79-12	—	79-24	—	—	—
	57	" " " "								
	58	" " " " Gland								
	59	" " Casing								
	60	" " Flange								
	61	" " Nipple								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
	1	Superheater Arrangement								
	2	" Header								
	3	" " Support								
	4	" " "								
	5	" Return Bends								
	6	" " "								
	7	" Tube End								
	8	" " Joint								
	9	" " Clamp								
	10	" " " Washer								
	11	" " " Bolt								
	12	" " " " Washer								
	13	" " Support					117 Fire			
	14	" " Bands								
	15	" Unit								
	16	" Damper								
	17	" " Cyl.								
	18	" " " Arm								
	19	" " " Support								
	20	" " Arm								
	21	" " Rod								
	22	" " Shaft								
	23	" " "								
	24	" " " Bearing								
	25	" " " "								
	26	" " " "								
	27	" " " "								
	28	" " " Link								
	29	" " Counterweight								
	30	" " " Arm								
	31	" " Hinge								
	32	" " Flag								
	33	" Deflector Handle								
	34	" " Clamp								
	35	" " Plate Stud								
	36	GROUP 82—TANK VALVES								
✓	37	TANK Valve—Water	2	823A5006			—	—	82-22	—
✓	38	" " Body	2	"			82-23			
✓	39	" " " Plate	2	"			82-19			
✓	40	" " Bottom Plate	2	"			82-20			
✓	41	" " Top "	2	"			82-18			
✓	42	" " Cap	2	"			82-16			
✓	43	" " Seat	2	"			—		82-21	
✓	44	" " Stem	2	A-15147 Style 1		151F2	—			
✓	45	" " " Nut	2	823A5006			82-17			
✓	46	" " " Handle	2	"			82-14			
✓	47	" " " Clamp Nut	2	"			82-15			
✓	48	" " Strainer	2	"						
	49	Siphon Arrangement	—							
✓	50	Siphon	1	295	822B5013 for future		82-45			
✓	51	" Tube	1	"	" " "		82-46			
✓	52	" Pipe Flange	1	11305 Line 2			82-41			
✓	53	" Goose Neck	1	147 Style 1			82-26			
✓	54	" Stand Pipe	1	822A5020			—			
✓	55	" " " Flange	1	"			82-37			
✓	56	" " " "	1	"			82-38			
	57	" Hose Strainer	—							
✓	58	" " " Body	1	A-15173			82-78			
✓	59	" " " Cap	1	"			82-79			
✓	60	" " Nipple	2	11329 Line 3	3" Pipe	113F17	—			
✓	61	" " Bracket	5	To Suit Erect. Shop			—			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
✓	1	Tank Valve—Oil	1	A-15163			—		82-53	
✓	2	" " Seat	1	"			82-54			
✓	3	" " Cap Plate	1	"			82-55			
✓	4	" " Plate	2	"			82-56			
✓	5	" " Rod	1	"	LENGTH TO SUIT E. S.	151F55				
✓	6	" " Screen	1	"	4" PIPE 4 1/8" LONG.					
✓	7	" " Nut	1	"	BAR STOCK					
✓	8	" " Flange	1	11305 SET 1			82-39			
✓	9	" " Lever	1	B-15113		151F25				
✓	10	" " Stem	1	B-15115 LINE 2		50" × 5/8" DIA.				
✓	11	" " " End	1	822A5022 ~~[illegible]~~	STICK BRASS					
✓	12	" " " Stuffing Box	1	A-15171					82-58	
✓	13	" " " " " Nut	1	"					82-57	
✓	14	" " " " " Gland	1	"					82-60	
✓	15	" " " " " Follower	1	"						
✓	16	" Cock	~~1~~	~~1/4" STOP COCK~~						
	17	" Cooler Cock	—							
✓	18	Tank Measuring Rod	1	B-15116 SET 2	3/8" × 1" × 79 1/2" BAR					
✓	19	" " " Flange	1	A-16130			82-132			
✓	20	" " " Handle	1	"			82-133			
✓	21	" " " Guard	1	"	30" × 1 1/4" PIPE		—			
✓	22	" " " "	1	"	15" × 1 1/4" "		—			
	23									
	24	GROUP 83—TANK—ENGINE								
	25	Fuel Bunk								
	26	" " Rack								
	27	" " Tie Rod								
	28	" " Straps								
	29	" " Lugs								
	30	" " Gate								
	31									
	32									
	33	GROUP 85—TENDER FRAME								
	34	Tender Frame								
	35	" " Angle								
	36	" " "								
	37	" " "								
	38	" " "								
	39	" " Bolster—Top								
	40	" " " —Bot.								
	41	" " Brace								
	42	" " "								
	43	" " "								
	44	Frame Centre Plate								
	45	" End Casting								
	46	" " Timber Brace								
	47	" Side Bearings								
	48	GROUP 87—TENDER DECK, TOOL BOX								
	49	Tool Box								
	50									
	51	GROUP 88—TENDER TANK								
✓	52	Tank—Water	1	883 J 5030	CRATED FOR EXPORT	—	—	—	—	—
✓	53	" Material Bill	1 SET	M.O. 2682-B						
✓	54	" Funnel	1	882A5002						
✓	55	" " Lid	1	882A5003						
✓	56	" " ~~Hinge~~ RING	1	"		88A5003				
✓	57	" " Handle	1	"		151F135				
✓	58	" " ~~Hinge~~ Lug	3	5038		151-F-40				
✓	59	" FUNNEL ANGLE ~~Pin~~	1	882A5002		88A5002				
✓	60	" " Angle	1	"		151-F-111				
✓	61	" Lug	1	A-15139 SET 5		470-5-137				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK (Cont.)								
P	1	Tank—Headlight Bracket	2	883J5030	TO BE BOLTED BOX FOR EXPORT	100 F 20 ← FUTURE	—	—	—	—
	2	" —Ladder								
	3	" "								
	4	" —Coal Gate								
	5	" —Fuel Rack								
P	6	" —Shoveling Sheet	1	3/16 x 54" x ~~115~~ 127"	PLATE	—	—	—	—	—
	7	" " "	—							
P	8	Tank—Oil	1	884A5002						
P	9	" Material Bill	1 SET	M.O. 368-A						
P	10	" Funnel	1	B-15108 LINE 2	PLATE TO BE BOLTED IN PLACE. BOX FOR EXPORT.					
P	11	" " Cover	1	"	"					
P	12	" " " Eye Bolts	2	"		470S143				
P	13	" " " Tail Nuts	2	"		470S13				
P	14	" " " Handle	1	"		151F98				
P	15	" " Lug	2	"		470S144				
P	16	" " "	1	"		470S145				
P	17	" " Ring	1	"		151F105				
P	18	" " Angle	1	"		151F110				
P	19	" Lug	2	882D5016		151F40				
	20	" "								
	21	GROUP 91—THROTTLE & DRY PIPE								
P	22	Throttle Arrangement	1	913A5009			—			
P	23	Throttle Valve	1	B-12124 SET 1	912A5072 1-9/37 H.C.H. 19678		91-4			
P	24	" Case	1	12158 LINE 1	1-H.C.H. " 9/37		91-22			
P	25	" Valve Stem	1	912F5057 -1 H.C.H. 9/37 - 19678		912F5057	—			
P	26	" " " Stop	1	B-12158 LINE 2		121F231	—			
	27	" Pipe Elbow	—							
P	28	" Pipe Flange	1	A-12102 LINE 2		—	91-52	—	—	—
	29	" " Joint Ring	—							
P	30	" Bell Crank	1	B-12161		B-12161	—	—	—	—
P	31	" " " Fulcrum	1	912H5006		912H5006	—	—	—	—
	32	" Pipe Support	—							
P	33	" " Yoke	1	12183 SET 5		12183 SET 5				
P	34	" " Bracket	2	12181 " 2		121-F-55				
P	35	" " "	1	"		5/8 x 2 1/2 x 17				
P	36	" Stuffing Box	1	912A5049			91-16			
P	37	" " " Gland	1	"			91-17			
	38	" " " Flange								
	39	" Baffle Plate								
	40	" " "								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
P	46	THROTTLE LEVER	1	913A5019		121F18			—	
P	47	Throttle Lever Handle	1	D-1315 LINE 3		FIN. SIZES			68-3	
P	48	" " Latch	1	913A5019		11/16 x 2 3/16 x 4 11/16				
P	49	" " " Rod	1	"		121-F-31				
P	50	" " Links	2	"		121-F-135				
P	51	" " Quadrant	1	"						91-3
P	52	" " Fulcrum	1	B-12103 LINE 1		121-F-20				
	53	" " Guide	—							
P	54	" " Rod	1	913A5019		121-F-21	—	—	—	—
	55	" " Support								
	56	DRY PIPE								
	57	" " Ring								
	58	" " Support								
	59	" " "								
	60	" " Yoke								
	61	" " Elbow								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS								
	1	Brake Shoes								
	2	Chisel—Cape								
	3	" —Flat								
	4	Hammer—Soft			Wood Handle					
	5	Jack Screw								
	6	" " Cap								
	7	" " Base								
	8	" " Collar								
	9	" "								
	10	" " Cap								
	11	" " Base								
	12	" " Collar								
	13	Journal Brass Rod								
	14	Packing Hook								
	15	" Spade								
	16	Pinch Bar								
	17	Jack Bar								
	18	Torch								
	19	" Cap								
	20	" Nozzle								
	21	Valve Tram								
	22	Wrench List	1 SET	92 M.O. 5008						
	23	Ash Hoe								
	24	" " Handle								
	25	Clinker Hook								
	26	Poker								
	27	Wrecking Frogs	1 PR.	No. 4 LIMA						
	28	Grease	—							
	29	~~Oil~~ TOOL EQUIPMENT	1 SET	923A5004		—	—	—	—	—
	30	GROUP 93—TRUCKS & DETAILS								
	31	TRUCK Plan	1 SET	16009 LINE 2		—	—	—	—	—
	32	" Bolster	2 "	933A5086		—	—	—	—	—
	33	" " End Casting—R.	—							
	34	" " " " —L.	—							
	35	" " " Separator	4	932A5265		—	93-737	—	—	—
	36	" " Spring Centers	80	A-9548		—	93-53	—	—	—
	37	" "								
	38	" "								
	39	" " Brake Rod Roller								
	40	" " " " " Brkt.								
	41	" " " Lever Guide								
	42	" " " " "								
	43	" Center Plate	2	932B5415		—	—	93-133	—	—
	44	" Side Bearing Base	4	932A5250			93-6			
	45	" " " Block REAR	2	932N5243			93-428			
	46	" ~~Frame~~ " " FRONT	2	932X5243			93-428			
	47	" "								
	48	" " Splice								
	49	" " "								
	50	" Right Arch Bar	2	A-9777 LINE 3		97F36	—	—	—	—
	51	" Left Arch Bar	2	"		97F36				
	52	" Right Inverted Arch Bar	2	"		97F39				
	53	" Left Inverted Arch Bar	2	"		97F39				
	54	" Bottom Tie Bar	1	932A5389		932A5389				
	55	" " " "	1	932B5389		932B5389				
	56	" " " " ~~Angle~~	1	932A5390		932A5390				
	57	" " " " ~~—~~	1	932B5390		932B5390				
	58	" " " Fill. Block	—							
	59	" Column—Right	2	932E5346		—	93-419	—	—	—
	60	" " —Left	2	932C5347		—	93-420	—	—	—
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
P	1	Truck Crosstie Bar—Top	4	932A5356		932A5356	—	—	—	—
	2	" " " "								
	3	" " " " Angles								
	4	" " " " "								
P	5	" " " —Bottom	2	932C5367		932C5367				
P	6	" " " "	2	932D5367		932D5367				
P	7	" " " " Fill Block	8	"		1/4"×3"×5"				
	8	" " " —Center	—							
	9	" " " "	—							
P	10	" Diagonal Braces	4 Pr	932A5331		~~97F95~~ 932A5331	—	—	—	—
P	11	" " "				~~97F95~~	—	—	—	—
	12	" " "								
	13	" " "								
	14	" Equalizer								
P	15	" Gear Cover	8	932A5348	PLATE	—	—	—	—	—
	16	" " "								
	17	" " "								
	18	" " "								
P	19	" " " Bracket	4	932B5263		5/8"×2"×26"				
P	20	" " " " GUIDE	4	932A5379	PLATE	—				
P	21	" " " " "	4	932B5379	"	—				
P	22	" " " GUIDE	8	932A5260		932A5260				
	23	"	—							
P	24	" King Bolt	2	10153 SET 2		10153 SET 2	—	—	—	—
P	25	" " " Key	2	" " 4		" " 4	—	—	—	—
	26	" Safety Chain—To Frame	—							
	27	" " " " "	—							
	28									
	29									
	30									
P	31	TRUCK BOX—Right	4	933B5075		—	—	93-29	—	—
	32	" " "								
	33	" " "								
	34	" " "								
P	35	" " Cap—Right	4	9227 SET 2		—	93-13	—	—	—
	36	" " " "								
	37	" " " "								
	38	" " " "		933B5103						
P	39	" Pedestal	4	9350 LINE 2 ~~933 LINE 2~~	Changed to suit shop, for future use cd. 9311 LINE 2.	—	—	93-262 196 ~~93-2~~	—	—
P	40	" " Cap	4	932B5447 ~~933 SET 1 LINE 2~~		—	—	93-95	—	—
	41	" " " Shim								
	42	" " " "								
	43	" " " "								
	44	" " " "								
P	45	" Box—Inside	4	932B5094		—	—	93-374	—	—
P	46	" " Cap—Inside	4	9338 SET 9			93-115			
P	47	" Inside Box Spring Center	4	932A5313			93-51			
P	48	" " Thrust Plate	4	9307			—		93-200	
P	49	" Journal Brass	9	932A5065	ONE FOR EQUIPMENT		—		93-44	
	50	" " " Wedge	—							
	51									
	52									
	53									
	54									
	55									
	56									
	57									
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	61									

X Hd.

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION								
	1	Piston Valve	—							
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
P	5	Slide Valve	3	942A5049		—	94-67	—	—	—
P	6	" " Plate	3	"		—	94-66	—	—	—
	7	" " Packing Strip	—							
	8	" " " "	—							
P	9	" " Ring—Mat'l For	3	653H5001	Pot Pattern	—	65-86	—	—	—
P	10	" " Spring	3	#3		—	—	—	—	—
	11									
	12									
	13	VALVE STEM	—							
P	14	" " Crosshead	3	3449		Z	94-6	Z	Z	Z
P	15	" " " Guide	3	"			94-7			
P	16	" " " " Plate	6	"			94-8			
	17	" " " Gibs	—							
	18									
P	19	VALVE YOKE	3	942A5072		942A5072	—	—	—	—
	20	" " Block	—							
	21	" " Key	—							
P	22	VALVE STEM PACKING	3 SET	GARLOCK	PURCHASED	—	—	—	—	—
	23	Packing Rings	Z							
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
P	27	" Follower	3	652A5016		Z	—	Z	65-40	Z
P	28	" Stuffing Box	3	652A5006			65-38		—	
P	29	" " " Gland	3	652B5011			65-144		—	
	30	" Spring	—							
P	31	" Studs, Valve Stem	6	7738 SET 9 LINE 2						
	32									
	33	GROUP 95—WHEELS AND TIRES								
P	34	Wheel	8	953B5006		—	95-14-A	—	—	—
P	35	Tire	8	~~A-9997~~ 3408	SEC. #~~1~~ #5	—	—	—	—	—
	36	Hub Plate								
	37									
	38									
	39	GROUP 96—WHISTLE AND RIGGING								
P	40	WHISTLE	1	5" C.I. CHIME	PURCHASED	—	—	—	—	—
	41	" Bowl	—							
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
P	47	" Lever	1	962A5010		962A5010	—	—	—	—
	48	" Elbow	—							
	49	" Rigging	—							
P	50	WHISTLE Hand Lever	1	A-11149		111-F-10	—	—	—	—
	51	" " " Fulcrum	—							
	52	" Rod	—							
P	53	" Bell Crank	1	A-11149		111-F-11	—	—	—	—
P	54	" Rod Thimble	1	122A5021		—	12-19	—	—	—
	55	" " " Washer	—							
	56									
	57	GROUP 99—MISCELLANEOUS								
	58	SPEED RECORDER RIGGING								
P	59	PACKING BOX	7	993A5000	SIZE AS PER CARD					
	60									
	61									

CLASSIFICATION OF DRAWINGS

GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer Blow-off Cock—See 26 Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equipment, Engine and Tender Brick Arch—See 45
21	Bumpers and Details By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging Connecting Rods—See 72 Coupler, Engine—See 37 Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars All Drawgears F and B Drawgear, Tender—See 37 Draft Pipe—See 75 Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles Expansion Pad, Knee and Plate—See 48 Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer Fire Box Ring—See 14 Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers Keys—See 15

Group No.	TITLE
57	Lagging and Jacket Lamps—See 54
58	Link Motion Mud Drum—See 14 Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs Safety Valves—See 78
73	Sand Box, Sanders and Rigging Side Sheet, Cab—See 71 Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbalance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces Smoke Consumer—See 45 Speed Recorder—See 99
76	Springs Sprinkler—See 64 Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets Steam Heat—See 64
79	Steam Pipes and Tee Heads Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves Tires—See 95 Tool Boxes, Engine—See 23 Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings Tube Setting—See 14 Turret, Safety Valve—See 78 Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing Valve Rod Crosshead Guide—See 94 Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trailing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

Material Specifications

New Class
New Frame
Oil Burning Arrgt.
Oil Tnks
Run Boards